

“SolarBullet”

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Plan of Approach

The main aim of this project is to design and develop a solar car, which drives at a high speed. At the same time the solar car should be highly stiff and powerful so that it can resist the impact of a collision. For the propulsion of the solar car, solar energy used will be the only source of energy.

Methodology:

The project is divided into different parts: Educating, Simulation, Construction and Management. Each of these parts has one or many subtasks that are equally divided among the members. The team comes together at least twice a week to have a group meeting, wherein the progress of the project will be discussed, and then take the project to the next level. The team also gets guidance from the course coach about how to achieve the goals.

Plan:

First and foremost, each member does individual literature research in different areas of the project. The information gathered from each member will then be brought together and discussed to get the best design concept for the car.

Goals:

The goal of this project is to construct an innovative solar car, which:

- is energy-efficient
- can cover 10m distance to least in 20 seconds
- is strong enough to survive the collision with a pétanque ball
- is able to push the pétanque ball as high as possible
- and is cost-efficient

Limitations:

The limitations that can hinder this project might be the maximum output power of the dc motor, solar panel and budget. Additionally, the lack of background knowledge about the theoretical and technical aspects of a solar car is mainly the problem in this project.

Cooperation Contract:

Team Name: SolarBullet



Our team consisted of five members. The main motto of the team is that every member needs to participate and contribute to every aspect of the development of the project. Each person of the team should understand the working principles and the implementation of the technology. Additionally, each member has to be a leader in different aspects of the project and is therefore given personal responsibilities.

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| 1. Mei Lang Xiong : Team Leader | (0488957175) |
| 2. Toran Chhantyal : Quality Inspector (vice-leader) | (0489758606) |
| 3. Sudip Khadka : President of Meetings | (0483378362) |
| 4. Vuyyuri Vivek Varma : Secretary of Meetings | (0485444331) |
| 5. Budi Anand Swaroop : File Administrator | (0486060102) |
| 6. Elnaz Ghavanlou: Secretary administrator | (0484409523) |

- Each team member is assigned with several tasks, which have to be completed by certain deadlines. The team meets at least once a week and discusses the progress of the project. At other moments, the team members should communicate via social sites and share files through an online platform (Dropbox).
- Every Tuesday, the team gets guidance from its coach. The members can also get feedback and suggestions from the coach by e-mail or personal meeting.
- In case of absence of any member, he/she has to inform the team beforehand about it or immediately after recovery in case of health issues.